PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| Applicant's or agent's file reference | FOR FURTHER | see Form PCT/ISA/220 |
|---|---|--|
| P041194P0 | ACTION as w | vell as, where applicable, item 5 below. |
| International application No. | International filing date (day/month/year) | (Earliest) Priority Date (day/month/year) |
| PCT/JP2005/022992 | 08/12/2005 | 08/12/2004 |
| Applicant | | |
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| MATSUSHITA ELECTRIC INDUS | TRIAL CO., LTD. | |
| This international search report has been according to Article 18. A copy is being to | prepared by this International Searching Au ansmitted to the International Bureau. | thority and is transmitted to the applicant |
| This international search report consists o | of a total of sheets. | |
| X It is also accompanied by | a copy of each prior art document cited in t | his report. |
| 1. Basis of the report | | |
| • | international search was carried out on the | basis of: |
| X the international | application in the language in which it was fil | ed |
| | ne international application into urnished for the purposes of international sea | , which is the language arch (Rules 12.3(a) and 23.1(b)) |
| b. With regard to any nucle | otide and/or amino acid sequence disclos | ed in the international application, see Box No. I. |
| 2. Certain claims were fou | und unsearchable (See Box No. II) | |
| | dia a food Double III) | |
| 3. Unity of invention is lac | cking (see Box No III) | |
| 4. With regard to the title, | | |
| X the text is approved as si | ubmitted by the applicant | • |
| the text has been establis | shed by this Authority to read as follows: | |
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| 5 1450 | | |
| 5. With regard to the abstract, | ubmitted by the coolings | |
| | ubmitted by the applicant shed, according to Rule 38.2(b), by this Auth | ority as it appears in Box No. IV. The applicant |
| | | earch report, submit comments to this Authority |
| 6. With regard to the drawings, | | |
| a. the figure of the drawings to be | published with the abstract is Figure No3_ | |
| X as suggested by | the applicant | |
| as selected by th | is Authority, because the applicant failed to | suggest a figure |
| as selected by th | is Authority, because this figure better chara | cterizes the invention |
| b. none of the figures is to t | pe published with the abstract | |

INTERNATIONAL SEARCH REPORT

International application No PCT/JP2005/022992

A. CLASSIFICATION OF SUBJECT MATTER F 04B 39/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) F04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

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| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|-----------------------|
| X | US 5 769 126 A (CHO ET AL) 23 June 1998 (1998-06-23) | 1,4-6 |
| Υ | column 1, lines 27-58; figure 3 column 2, lines 21-23 | 2,3 |
| Υ | US 4 580 604 A (KAWAGUCHI ET AL) 8 April 1986 (1986-04-08) figures 7-9 | 2,3 |
| A . | US 5 209 260 A (BAEK ET AL) 11 May 1993 (1993–05–11) the whole document | |
| A | US 2003/066563 A1 (HONG MYUNG-JUNG) 10 April 2003 (2003-04-10) the whole document | |
| | | |

| X | Further documents are listed in the | continuation of Box C. |
|---|-------------------------------------|------------------------|
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X s

See patent family annex.

- Special categories of cited documents:
- *A* document defining the general state of the art which is not considered to be of particular relevance
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- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- O document referring to an oral disclosure, use, exhibition or other means
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- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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- *&* document member of the same patent family

Date of mailing of the international search report

Date of the actual completion of the international search

23 February 2006 03/03/2006

Name and mailing address of the ISA/

European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer

Olona Laglera, C

Form PCT/ISA/210 (second sheet) (April 2005)

INTERNATIONAL SEARCH REPORT

International application No
PCT/JP2005/022992

| ategory* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|----------|--|-----------------------|
| 1 | PATENT ABSTRACTS OF JAPAN vol. 2002, no. 11, 6 November 2002 (2002-11-06) & JP 2002 195160 A (MATSUSHITA REFRIG CO LTD), 10 July 2002 (2002-07-10) cited in the application abstract | |
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No
PCT/JP2005/022992

| Patent document cited in search report | 1 | Publication date | | Patent family member(s) | Publication date |
|---|----|---------------------|------|-------------------------|---------------------|
| US 5769126 | Α | 23-06-1998 | JP | 10110027 A | 28-04-1998 |
| US 4580604 | A | 08-04-1986 | DE | 3474054 T | 20-10-1988 |
| | | | DE | 3474054 D1 | 20-10-1988 |
| | | | DK | 121990 A | 17-05-1990 |
| | | • | DK | 293684 A | 24-12-1984 |
| | | | EP | 0129738 A1 | 02-01-1985 |
| | | | EP | 0231955 A2 | 12-08-1987 |
| | | | ES | 8603635 A1 | 16-04-1986 |
| | | | MX | 160301 A | 26-01-1990 |
| | | | PH | 21333 A | 13-10-1987 |
| US 5209260 | A | 11-05-1993 | CN | 2116784 U | 23-09-1992 |
| | | | ΙT | 227194 Y1 | 16-09-1997 |
| | | | JP | 2559084 Y2 | 14-01-1998 |
| | | | JP | 5078980 U | 26-10-1993 |
| | | | KR | 9305874 Y1 | 01-09-1993 |
| US 2003066563 | A1 | 10-04-2003 | BR | 0200017 A | 09-09-2003 |
| | | | CN | 1410675 A | 16-04-2003 |
| | | | ΙT | MI20012673 A1 | 18-06-2003 |
| | | | JP. | 3706340 B2 | 12-10-2005 |
| | | * | JР | 2003120536 A | 23-04-2003 |
| | | *** | KR | 2003032127 A | 26-04-2003 |
| JP 2002195160 | Α | 10-07-2002 | NONE | | |